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Algebraic structures in group-theoretical fusion categories

In this talk, we will present an explicit construction of Morita equivalence class representatives of indecomposable, separable algebras in group-theoretical fusion categories. This generalizes the result by Ostrik (2003) and Natale (2017) that a collection of twisted group algebras in a pointed fusion category serve as explicit Morita equivalence class representatives of indecomposable, separable algebras in such categories. We will explain the construction of our algebras and good algebraic properties that they enjoy.

This talk is based on joint work with Y. Morales, M. Müller, A. Ros Camacho, A. Tabiri, C. Walton.